**DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
OFFICE ENGINEER
1727 30th Street MS-43
P.O. BOX 168041
SACRAMENTO, CA 95816-8041
FAX (916) 227-6214
www.dot.ca.gov/hq/esc/oe

*Serious Drought.*
*Help save water!*

June 26, 2014

04-CC-4/242-R8.0/25.2 & 0.0/3.4
04-152724
Project ID 0412000628
CML-6204(114)

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN CONTRA COSTA COUNTY AT VARIOUS LOCATIONS ON RTE 4 FROM WEST OF ALHAMBRA AVENUE TO EAST OF LOVERIDGE ROUTE D AND ON RTE 242 FROM ROUTE 680 TO ROUTE 4..

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Tuesday, July 8, 2014.

This addendum is being issued to revise the *Project Plans*, *Notice to Bidders and Special Provisions*, the *Bid Book* and the Federal Wages with Modification number 13 dated 06/20/2014.

Project plan sheets 1, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 23, 27, 33, 42, 51, 52, 53, 54, 57, 59, 126, 139, 140, 154, 171, 172, 173, 174, 184, 185, 186, 215, 216, 217, 228, 229, 287, 288, 289, 290, 311, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 419, 420, 421, 422, 423, 424, 425, 426, 427 and 428 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheets 290A, 290B, 351A, 351B, 351C, 351D, 351E, 351F, 351G, 351H, 351I, 351J, 351K, 428A and 428B are added and attached for addition to the project plans.

Project plan sheet 327 is deleted.

In the *Notice to Bidders and Special Provisions* and in the *Bid* book, the project plans approved date is replaced with:

"Project plans approved January 13, 2014".

In the *Notice to Bidders and Special Provisions*, the "STANDARD PLANS LIST," is replaced as attached.

In the *Notice to Bidders and Special Provisions*, the "NOTICE TO BIDDERS" is replaced as attached

In the Special Provisions, Section 1-1.01, is replaced as attached.

In the Special Provisions, Section 8-1.04C, is replaced as attached.

In the Special Provisions, Section 12-4.02 is replaced as attached.

In the Special Provisions, Section 12-8, is replaced as attached.

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In the Special Provisions, Section 13-6.03H, is added as follows:

**Add to section 13-6.03H:**

Temporary reinforced silt fence must be Type 1.

In the Special Provisions, Section 14-1.02A, is replaced as follows:

**Add to section 14-1.02A:**

An ESA exists on this project.

Before start of work, protect the ESA by installing Temporary Reinforced Silt Fence and Temporary Fence (Type ESA).

In the Special Provisions, Section 14-8.02A, is replaced as attached.

In the Special Provisions, Section 14-11.03, is replaced as attached.

In the Special Provisions, Section 20-4.01A, is replaced as follows:

**"Add to section 20-4.01A of the RSS for section 20:**

The plant establishment period must be Type 2."

In the Special Provisions, Section 25, the revision clause "Add to section 25-1.03D" is deleted.

In the Special Provisions, Section 84-6, "THERMOPLASTIC TRAFFIC STRIPES AND PAVEMENT MARKINGS WITH ENHANCED WET NIGHT VISIBILITY," is added as attached.

In the Special Provisions, Section 86-5.03, is added as attached.

In the *Bid* book, in the "Bid Item List," Items 8, 10, 12, 32, 34, 37, 44, 47, 54, 58, 68, 69, 70, 71, 72, 73, 83, 86, 88, 89, 90, 115, 116, 122, 124, and 125 are replaced, Items 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155 are added and Items 40, 43, 55, 56, 84, 85, 111,141, and 144 are deleted as attached.

To *Bid* book holders:

In the *Bid* book, pages 3, 4, 5, 6, 7, 8, 9 and 10 of the "Bid Item List" are replaced as attached. The attached Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the *Notice to Bidders* section of the *Notice to Bidders and Special Provisions*.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the *Bid* book.

Submit bids in the *Bid* book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

04-CC-4/242-R8.0/25.2 & 0.0/3.4
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Project ID 0412000628
CML-6204(114)

This addendum, attachments and the modified wage rates are available for the Contractors' download on the Web site:

**http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-152724**

If you are not a *Bid* book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

for BIJAN SARTIPI
District Director

Attachments

# STANDARD PLANS LIST

The standard plan sheets applicable to this Contract include those listed below. The applicable revised standard plans (RSPs) listed below are included in the project plans.

| | |
|---|---|
| A10A | Abbreviations (Sheet 1 of 2) |
| RSP A10B | Abbreviations (Sheet 2 of 2) |
| A10C | Lines and Symbols (Sheet 1 of 3) |
| A10D | Lines and Symbols (Sheet 2 of 3) |
| A10E | Lines and Symbols (Sheet 3 of 3) |
| A10F | Legend - Soil (Sheet 1 of 2) |
| A10G | Legend - Soil (Sheet 2 of 2) |
| A10H | Legend - Rock |
| A20A | Pavement Markers and Traffic Lines, Typical Details |
| A62A | Excavation and Backfill - Miscellaneous Details |
| A73A | Object Markers |
| A73B | Markers |
| A76A | Concrete Barrier Type 60 |
| RSP A77L1 | Midwest Guardrail System Standard Railing Section (Wood Post with Wood Block) |
| RSP A77N1 | Midwest Guardrail System Wood Post and Wood Block Details |
| A78F1 | Double Thrie Beam Barrier - Connection to Bridge Railings without Sidewalks |
| A78F2 | Single Thrie Beam Barrier - Connections to Bridge Railings without Sidewalks |
| A85A | Chain Link Fence Details |
| RSP A88A | Curb Ramp Details |
| RSP A88B | Curb Ramp and Island Passageway Details |
| RSP H1 | Landscape and Erosion Control Abbreviations |
| RSP H2 | Landscape and Erosion Control Symbols |
| H3 | Landscape Details |
| RSP H4 | Landscape Details |
| RSP H5 | Landscape Details |
| RSP H6 | Landscape Details |
| RSP H7 | Landscape Details |
| RSP H9 | Landscape Details |
| RSP H9A | Landscape Details |

| | |
|---|---|
| H51 | Erosion Control Details - Fiber Roll and Compost Sock |
| H52 | Rolled Erosion Control Product |
| T1A | Temporary Crash Cushion, Sand Filled (Unidirectional) |
| T1B | Temporary Crash Cushion, Sand Filled (Bidirectional) |
| T2 | Temporary Crash Cushion, Sand Filled (Shoulder Installations) |
| T3A | Temporary Railing (Type K) |
| T3B | Temporary Railing (Type K) |
| T51 | Temporary Water Pollution Control Details (Temporary Silt Fence) |
| T53 | Temporary Water Pollution Control Details (Temporary Cover) |
| T56 | Temporary Water Pollution Control Details (Temporary Fiber Roll) |
| T57 | Temporary Water Pollution Control Details (Temporary Check Dam) |
| T58 | Temporary Water Pollution Control Details (Temporary Construction Entrance) |
| T59 | Temporary Water Pollution Control Details (Temporary Concrete Washout Facility) |
| T60 | Temporary Water Pollution Control Details (Temporary Reinforced Silt Fence) |
| T61 | Temporary Water Pollution Control Details (Temporary Drainage Inlet Protection) |
| T62 | Temporary Water Pollution Control Details (Temporary Drainage Inlet Protection) |
| T63 | Temporary Water Pollution Control Details (Temporary Drainage Inlet Protection) |
| T64 | Temporary Water Pollution Control Details (Temporary Drainage Inlet Protection) |
| T65 | Temporary Water Pollution Control Details [Temporary Fence (Type ESA)] |
| B0-3 | Bridge Details |
| RSP B3-4A | Retaining Wall Type 5 (Case 1) |
| RSP B3-5 | Retaining Wall Details No. 1 |
| B3-6 | Retaining Wall Details No. 2 |
| RSP B11-47 | Cable Railing |
| RSP B11-55 | Concrete Barrier Type 732 |
| RS1 | Roadside Signs, Typical Installation Details No. 1 |
| RS2 | Roadside Signs - Wood Post, Typical Installation Details No. 2 |
| RS4 | Roadside Signs, Typical Installation Details No. 4 |
| S109 | Overhead Sign - Truss, Single Post Type, Layout, Full Cantilever Changeable Message Signs, Model 500 |
| S110 | Overhead Sign - Truss, Single Post Type, Structural Frame Details, Full Cantilever Changeable Message Signs, Model 500 |
| S116 | Overhead Sign - Truss, Single Post Type, Foundation And Miscellaneous Details, Changeable Message Signs, Model 500 |

| | |
|---|---|
| RSP ES-1A | Electrical Systems (Legend and Abbreviations) |
| RSP ES-1B | Electrical Systems (Legend and Abbreviations) |
| RSP ES-1C | Electrical Systems (Legend and Abbreviations) |
| ES-2A | Electrical Systems (Service Equipment) |
| ES-2C | Electrical Systems (Service Equipment Notes, Type III Series) |
| ES-2D | Electrical Systems (Service Equipment Enclosure and Typical Wiring Diagram, Type III - A Series) |
| ES-3C | Electrical Systems (Controller Cabinet Foundation Details) |
| ES-3E | Electrical Systems (Telephone Demarcation Cabinet, Type B) |
| RSP ES-4A | Electrical Systems (Vehicular Signal Heads and Mountings) |
| RSP ES-4B | Electrical Systems (Pedestrian Signal and Ramp Metering Sign) |
| RSP ES-4C | Electrical Systems (Vehicular Signal Heads and Mountings) |
| ES-4D | Electrical Systems (Signal Mounting) |
| RSP ES-4E | Electrical Systems (Vehicular Signal Heads and Optical Detector Mounting) |
| ES-5A | Electrical Systems (Detectors) |
| RSP ES-5B | Electrical Systems (Detectors) |
| RSP ES-5C | Electrical Systems (Accessible Pedestrian Signal, Push Button Assemblies and Magnetic Vehicle Detector) |
| RSP ES-5D | Electrical Systems (Curb Termination and Handhole) |
| ES-6A | Electrical Systems (Lighting Standard, Types 15 and 21) |
| ES-6B | Electrical Systems (Electrolier Anchorage and Grouting for Types 15 and 21, Barrier Rail Mounted) |
| ES-6E | Electrical Systems (Lighting Standard, Types 30 and 31) |
| ES-6F | Electrical Systems (Lighting Standard, Slip Base Plate) |
| ES-7B | Electrical Systems (Signal and Lighting Standard - Type 1 and Equipment Numbering) |
| RSP ES-7E | Electrical Systems (Signal and Lighting Standard, Case 3 Signal Mast Arm Loading, Wind Velocity = 100 mph and Signal Mast Arm Lengths 15' to 45') |
| RSP ES-7F | Electrical Systems (Signal and Lighting Standard, Case 4 Signal Mast Arm Loading, Wind Velocity = 100 mph and Signal Mast Arm Lengths 25' to 45') |
| RSP ES-7G | Electrical Systems (Signal And Lighting Standard, Case 5 Signal Mast Arm Loading, Wind Velocity = 100 mph and Signal Mast Arm Lengths 50' to 55') |
| ES-7M | Electrical Systems (Signal and Lighting Standard - Detail No. 1) |
| ES-7N | Electrical Systems (Signal and Lighting Standard - Detail No. 2) |
| ES-7O | Electrical Systems (Signal and Lighting Standard - Detail No. 3) |
| RSP ES-8A | Electrical Systems (Non-Traffic Pull Box) |
| RSP ES-8B | Electrical Systems (Traffic Pull Box) |

| | |
|---|---|
| ES-9A | Electrical Systems (Structure Pull Box Installations) |
| ES-9C | Electrical Systems (Structure Pull Box) |
| ES-9D | Electrical Systems (Structure Pull Box Installations) |
| RSP ES-10A | Electrical Systems (Isofootcandle Diagrams) |
| RSP ES-10B | Electrical Systems (Isofootcandle Diagrams) |
| RSP ES-11 | Electrical Systems (Foundation Installations) |
| ES-13A | Electrical Systems (Splicing Details) |
| ES-13B | Electrical Systems (Fuse Rating, Kinking and Banding Detail) |
| ES-14A | Electrical Systems (LED Extinguishable Message Sign, 10" Letters) |
| ES-14B | Electrical Systems (Control Assembly Wiring Diagrams) |
| RSP ES-14C | Electrical Systems (Extinguishable Message Sign on a Full Cantilever) |
| ES-15A | Electrical Systems (Sign Illumination Equipment) |
| ES-15C | Electrical Systems (Sign Illumination Equipment) |
| ES-15D | Electrical Systems (Lighting and Sign Illumination Control) |
| RSP ES-16B | Electrical Systems (Closed Circuit Television, 25' to 45' Pole) |
| RSP ES-16D | Electrical Systems (Closed Circuit Television with Vehicle Detection System, 30' to 40' Pole) |
| RSP A20C | Pavement Markers and Traffic Line, Typical Details |
| RSP A77M1 | Midwest Guardrail System Standard Hardware |
| RSP A77N3 | Midwest Guardrail System Typical Line Post Embedment and Hinge Point Offset Details |
| RSP A77N4 | Midwest Guardrail System Typical Railing Delineation and Dike Positioning Details |
| RSP A77P1 | Midwest Guardrail System Typical Layouts for Embankments |
| RSP A77Q1 | Midwest Guardrail System Typical Layouts for Structure Approach |
| RSP A77U4 | Midwest Guardrail System Transition Railing (Type WB-31) |
| RSP A77U5 | Midwest Guardrail System Transition to Metal Beam Guardrail |
| RSP A87A | Curbs and Driveways |
| RSP A87B | Hot Mix Asphalt Dikes |
| RSP S140 | Overhead Sign-Truss Single Post Type Walkway Safety Railing Details, Changeable Message Signs Model 500 and 510 |
| RSP S141 | Overhead Sign-Truss Single Post Type Safety Cable Anchorage Details, Changeable Message Signs Model 500 and 510 |

# NOTICE TO BIDDERS

Bids open Tuesday, July 8, 2014

Dated April 28, 2014

General work description: Install ramp metering & TOS elecments.

The Department will receive sealed bids for CONSTRUCTION ON STATE HIGHWAY IN CONTRA COSTA COUNTY AT VARIOUS LOCATIONS ON RTE 4 FROM WEST OF ALHAMBRA AVENUE TO EAST OF LOVERIDGE ROUTE D AND ON RTE 242 FROM ROUTE 680 TO ROUTE 4..

District-County-Route-Post Mile: 04-CC-4/242-R8.0/25.2 & 0.0/3.4

Contract No. 04-152724

The Contractor must have either a Class A license or one of the following Class C licenses: C-12, C-27, C-10.

The DBE Contract goal is 14 percent.

Federal-aid project no.:

CML-6204(114)

For the Federal training program, the number of trainees or apprentices is 2.

Bids must be on a cost+time basis.

Complete the work within the number of working days bid.

Do not bid more than 250 working days.

Complete the plant establishment work within 250 working days

The estimated cost of the project is $15,500,000.

No prebid meeting is scheduled for this project.

The Department will receive bids until 2:00 p.m. on the bid open date at 1727 30th Street, Bidders' Exchange, MS 26, Sacramento, CA 95816. Bids received after this time will not be accepted. Department staff will direct the bidders to the bid opening.

The Department will open and publicly read the bids at the above location immediately after the specified closing time.

District office addresses are provided in the *Standard Specifications*.

Present bidders' inquiries to the Department and view the Department's responses at:

http://www.dot.ca.gov/hq/esc/oe/inquiry/bid_inquiries.php

Questions about alleged patent ambiguity of the plans, specifications, or estimate must be asked before bid opening. After bid opening, the Department does not consider these questions as bid protests.

Submit your bid with bidder's security equal to at least 10 percent of the bid.

Prevailing wages are required on this Contract. The Director of the California Department of Industrial Relations determines the general prevailing wage rates. Obtain the wage rates at the DIR Web site, http://www.dir.ca.gov, or from the Department's Labor Compliance Office of the district in which the work is located.

CONTRACT NO. 04-152724
REPLACED PER ADDENDUM NO. 3 DATED JUNE 26, 2014

The federal minimum wage rates for this Contract as determined by the United States Secretary of Labor are available at http://www.dot.ca.gov/hq/esc/oe/federal-wages.

If the minimum wage rates as determined by the United States Secretary of Labor differs from the general prevailing wage rates determined by the Director of the California Department of Industrial Relations for similar classifications of labor, the Contractor and subcontractors must not pay less than the higher wage rate. The Department does not accept lower State wage rates not specifically included in the federal minimum wage determinations. This includes helper, or other classifications based on hours of experience, or any other classification not appearing in the federal wage determinations. Where federal wage determinations do not contain the State wage rate determination otherwise available for use by the Contractor and subcontractors, the Contractor and subcontractors must not pay less than the federal minimum wage rate that most closely approximates the duties of the employees in question.

The Department has made available Notices of Suspension and Proposed Debarment from the Federal Highway Administration. For a copy of the notices, go to http://www.dot.ca.gov/hq/esc/oe/contractor_info. Additional information is provided in the Excluded Parties List System at https://www.epls.gov.

Department of Transportation

D04

**Add to section 1-1.01:**

**Bid Items and Applicable Sections**

| Item code | Item description | Applicable section |
|---|---|---|
| 027453 | RELOCATE IRRIGATION WYE STRAINER ASSEMBLY | 20 |
| 044631 | RANDOM ROUGH STACKED ROCK TEXTURE | 51 |
| 044632 | CONCRETE BARRIER TRANSITION | 83 |
| 044633 | CONCRETE BARRIER (TYPE 60 MODIFIED) | 83 |
| 044634 | CONCRETE BARRIER (TYPE 60D MODIFIED) | 83 |
| 027454 | TRAFFIC OPERATIONS SYSTEM | 86 |
| 027665 | LIGHTING AND SIGN ILLUMINATION (STAGE CONSTRUCTION) | 86 |
| 027666 | SIGNAL AND LIGHTING (LOCATION 6) | 86 |

# 8 PROSECUTION AND PROGRESS

**Replace "Reserved" in section 8-1.04C with:**

Section 8-1.04B does not apply.

Start job site activities within 55 days after receiving notice that the Contract has been approved by the Attorney General or the attorney appointed and authorized to represent the Department.

Do not start job site activities until the Department authorizes or accepts your submittal for:

1. CPM baseline schedule
2. WPCP or SWPPP, whichever applies
3. Notification of DRA or DRB nominee and disclosure statement

If the submittals for Contractor-supplied biologist and biological resource information program are authorized, you may enter the job site only to measure controlling field dimensions and locate utilities.

Do not start other job site activities until all the submittals from the above list are authorized or accepted and the following information is received by the Engineer:

1. *Notice of Materials To Be Used* form.
2. Written statement from the vendor that the order for the sign panels has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.
3. Written statement from the vendor that the order for electrical material has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.
4. Written statement from the vendor that the order for structural steel has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.

You may start job site activities before the 55th day after Contract approval if you:

1. Obtain specified authorization or acceptance for each submittal before the 55th day
2. Receive authorization to start

Submit a notice 72 hours before starting job site activities. If the project has more than 1 location of work, submit a separate notice for each location.

**Add to section 12-4.02A:**

If work including installing, maintaining, and removing Type K temporary railing is to be performed within 6 feet of the adjacent traffic lane, close the adjacent traffic lane.

Except as listed above, closure of the adjacent traffic lane is not required for installing, maintaining, and removing traffic control devices.

For grinding and grooving operations, saw cutting concrete slabs, and installing loop detectors, closure of the adjacent traffic lane is not required if an impact attenuator vehicle is used as a shadow vehicle.

Designated holidays are shown in the following table:

**Designated Holidays**

| Holiday | Date observed |
|---|---|
| New Year's Day | January 1st |
| Washington's Birthday | 3rd Monday in February |
| Memorial Day | Last Monday in May |
| Independence Day | July 4th |
| Labor Day | 1st Monday in September |
| Veterans Day | November 11th |
| Thanksgiving Day | 4th Thursday in November |
| Christmas Day | December 25th |

If a designated holiday falls on a Sunday, the following Monday is a designated holiday. If November 11th falls on a Saturday, the preceding Friday is a designated holiday.

Special days are: Third Monday in January.

The maximum length of the work area inside a lane closure other than one-way reversing traffic-control lane closure is 2 miles. Work area is as shown.

Not more than 1 stationary lane closure will be allowed in each direction of travel at one time. .

Personal vehicles of your employees must not be parked on the traveled way or shoulders, including sections closed to traffic.

If work vehicles or equipment are parked within 6 feet of a traffic lane, close the shoulder area as shown.

If a connector closure is required within the limits of a freeway lane closure, complete the work on the connector first. Then, complete the work on the freeway traveled way necessary to ensure safe passage of traffic between the connector and open freeway lanes. Complete the remaining work only after reopening the connector.

| |
|---|
| Vehicle openings |
| Pedestrian openings |
| Falsework pavement lighting |

The exact location of openings will be determined by the Engineer.

**Add to section 12-4.02C:**

Not used

**Replace "Reserved" in section 12-4.02D with:**

Not used

**Replace section 12-8 with:**

## 12-8 TEMPORARY PAVEMENT DELINEATION

### 12-8.01 GENERAL

Section 12-8 includes specifications for placing, applying, maintaining, and removing temporary pavement delineation.

Temporary signing for no-passing zones must comply with section 12-3.06.

Temporary painted traffic stripes and painted pavement markings used for temporary delineation must comply with section 84-3.

### 12-8.02 MATERIALS

#### 12-8.02A General

Not Used

#### 12-8.02B Temporary Lane Line and Centerline Delineation

Temporary pavement markers must be the same color as the lane line or centerline markers being replaced. Temporary pavement markers must be temporary pavement markers on the Authorized Material List for short-term day/night use, 14 days or less, or long-term day/night use, 180 days or less. Place temporary pavement markers under the manufacturer's instructions.

#### 12-8.02C Temporary Edge Line Delineation

On multilane roadways, freeways, and expressways open to traffic where edge lines are obliterated and temporary pavement delineation to replace those edge lines is not shown, provide temporary pavement delineation for:

1. Right edge lines consisting of (1) a solid 4-inch wide traffic stripe tape of the same color as the stripe being replaced, (2) traffic cones, or (3) portable delineators or channelizers placed longitudinally at intervals not exceeding 100 feet
2. Left edge lines consisting of (1) solid 4-inch wide traffic stripe tape of the same color as the stripe being replaced, (2) traffic cones, (3) portable delineators or channelizers placed longitudinally at intervals not exceeding 100 feet, or (4) temporary pavement markers placed longitudinally at intervals not exceeding 6 feet

#### 12-8.02D Temporary Traffic Stripe Tape

Not used

#### 12-8.02E Temporary Traffic Stripe Paint

Not Used

#### 12-8.02F Temporary Pavement Marking Tape

Not Used

#### 12-8.02G Temporary Pavement Marking Paint

You may use one of the types of temporary removable pavement marking tape or permanent pavement marking tape on the Authorized Material List instead of temporary pavement marking paint.

#### 12- 8.02H Temporary Pavement Markers

Not used

### 12-8.03 CONSTRUCTION

#### 12-8.03A General

Wherever work activities obliterate pavement delineation, place temporary or permanent pavement delineation before opening the traveled way to traffic. Place lane line and centerline pavement delineation for traveled ways open to traffic. On multilane roadways, freeways and expressways, place edge line delineation for traveled ways open to traffic.

Establish the alignment for the temporary pavement delineation including required lines or markers. Surfaces to receive an application of paint or removable traffic tape must be dry and free of dirt and loose material. Do not apply temporary pavement delineation over existing pavement delineation or other temporary pavement delineation. Maintain temporary pavement delineation until it is superseded or you replace it with a new pattern of temporary pavement delineation or permanent pavement delineation.

When the Engineer determines the temporary pavement delineation is no longer required for the direction of traffic, remove the temporary pavement markers, underlying adhesive, and removable traffic tape from the final layer of surfacing and from the existing pavement to remain in place. Remove temporary pavement delineation that conflicts with any subsequent or new traffic pattern for the area.

**12-8.03B Temporary Lane line and Centerline Delineation**

Whenever lane lines or centerlines are obliterated and temporary pavement delineation to replace the lines is not shown, the minimum lane line and centerline delineation must consist of temporary pavement markers placed longitudinally at intervals not exceeding 24 feet. For temporary pavement markers on the Authorized Material List for long-term day/night use, 180 days or less, cement the markers to the surfacing with the adhesive recommended by the manufacturer except do not use epoxy adhesive to place the pavement markers in areas where removal of the markers will be required.

For temporary lane line or centerline delineation consisting entirely of temporary pavement markers on the Authorized Material List for short-term day/night use, 14 days or less, place the markers longitudinally at intervals not exceeding 24 feet. Do not use the markers for more than 14 days on lanes opened to traffic. Place the permanent pavement delineation before the end of the 14 days. If the permanent pavement delineation is not placed within the 14 days, replace the temporary pavement markers with additional temporary pavement delineation equivalent to the pattern specified or shown for the permanent pavement delineation for the area. The Department does not pay for the additional temporary pavement delineation.

**12-8.03C Temporary Edge Line Delineation**

You may apply temporary painted traffic stripe where removal of a 4-inch wide traffic stripe is not required.

The Engineer determines the lateral offset for traffic cones, portable delineators, and channelizers used for temporary edge line delineation. If traffic cones or portable delineators are used for temporary pavement delineation for edge lines, maintain the cones or delineators during hours of the day when the cones or delineators are being used for temporary edge line delineation.

Channelizers used for temporary edge line delineation must be an orange surface-mounted type. Cement channelizer bases to the pavement under section 85 for cementing pavement markers to pavement except do not use epoxy adhesive to place channelizers on the top layer of the pavement. Channelizers must be one of the 36-inch, surface-mounted types on the Authorized Material List.

Remove the temporary edge line delineation when the Engineer determines it is no longer required for the direction of traffic.

**12-8.03D Temporary Traffic Stripe Tape**

Apply temporary traffic stripe tape under the manufacturer's instructions. Slowly roll the tape with a rubber-tired vehicle or roller to ensure complete contact with the pavement surface. Apply the tape straight on a tangent alignment and on a true arc on a curved alignment. Do not apply the tape when the air or pavement temperature is less than 50 degrees F unless the installation procedures are authorized beforehand.

The temporary traffic stripe tape must be complete in place at the location shown before opening the traveled way to traffic.

**12-8.03E Temporary Traffic Stripe Paint**

Apply 1 or 2 coats of temporary traffic stripe paint for new or existing pavement.

The painted temporary traffic stripe must be complete in place at the location shown before opening the traveled way to traffic. Removal of painted temporary traffic stripe is not required.

**12-8.03F Temporary Pavement Marking Tape**

Not used.

**12-8.03G Temporary Pavement Marking Paint**

Apply and maintain temporary pavement markings consisting of painted pavement markings at the locations shown. The painted temporary pavement marking must be complete in place at the location shown before opening the traveled way to traffic. Removal of painted temporary pavement marking is not required.

Apply 1 or 2 coats of temporary pavement marking paint for new or existing pavement.

**12- 8.03H Temporary Pavement Markers**

Not used.

Temporary pavement markers must be complete in place before opening the traveled way to traffic.

**12-8.04 PAYMENT**

Not Used

**Replace the 2nd paragraph of section 14-8.02A with:**

Do not exceed 86 dBA LMax at 50 feet from the job site activities from 9 p.m. to 5 a.m. except you may perform the following activities during the hours and for the days shown in the following table:

**Noise Restriction Exceptions**

| Activity | Hours | | Days | |
|---|---|---|---|---|
| | From | To | From | Through |
| Saw-Cutting | 9pm | 5am | Monday | Sunday |
| Pavement Grinding | 9pm | 5am | Monday | Sunday |
| Concrete Demolition | 9pm | 5am | Monday | Sunday |

**Replace section 14-11.03 with:**

## 14-11.03 MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALLY DEPOSITED LEAD

### 14-11.03A General

### 14-11.03A(1) Summary

Section 14-11.03 includes specifications for hazardous waste management while excavating, stockpiling, transporting, placing, and disposing of material containing hazardous waste concentrations of aerially deposited lead (ADL).

ADL is present within the project limits.

The Department has received from the DTSC a variance regarding the use of material containing ADL. The variance applies if Type Y-1 or Y-2 material are shown. The variance is available for inspection at the Department of Transportation, District 4, Office of Environmental Engineering, 111 Grand Ave., Oakland.

### 14-11.03A(2) Definitions

**Type Y-1**: Material that contains ADL in average concentrations (using the 90 percent Upper Confidence Limit) of 1.5 mg/L or less extractable lead (based on a modified waste extraction test using deionized water as the extractant) and 1,411 mg/kg or less total lead. This material is a California hazardous waste that may be reused as permitted under the variance of the DTSC provided that the lead contaminated soil is placed a minimum of 5 feet above the maximum historic water table elevation and covered with at least 1 foot of non-hazardous soil.

**Type Y-2:** Material that contains ADL in average concentrations (using the 90 percent Upper Confidence Limit) that exceed either 1.5 mg/L extractable lead (based on a modified waste extraction test using deionized water as the extractant) or 1,411 mg/kg total lead but are less than 150 mg/L extractable lead (based on a modified waste extraction test using deionized water as the extractant) and less than 3,397 mg/kg of total lead. This material is a California hazardous waste that may be reused as permitted under the variance of DTSC provided that the lead contaminated soil is placed a minimum of 5 feet above the maximum historic water table elevation and protected from infiltration by a pavement structure which will be maintained by the Department.

**Type Z-2**: Material that contains ADL in average concentrations (using the 95 percent Upper Confidence Limit) greater than or equal to 1,000 mg/kg total lead, greater than or equal to 5.0 mg/L soluble lead (as tested using the California Waste Extraction Test), and the material is surplus; or material that contains ADL in average concentrations greater than 150 mg/L extractable lead (based on a modified waste extraction test using deionized water as the extractant) or greater than 3,397 mg/kg total lead. This material is a Department-generated California hazardous waste and must be transported to and disposed of at a California Class I disposal site.

**Type Z-3:** Material that contains ADL in average concentrations (using the 95 percent Upper Confidence Limit) greater than 5.0 mg/L soluble lead, (as tested using the Toxicity Characteristic Leaching Procedure). This material is a Department-generated federal hazardous waste and must be transported to and disposed of at a California Class I disposal site.

### 14-11.03A(3) Site Conditions

ADL concentration data and sample locations maps are included in the *Information Handout*.

Type Y-1 material exists between 0 and 22 feet, measured horizontally from the edges of existing pavement,, and from a depth of 0 to 3.15 feet below existing grade, at the following locations and as shown on plans:

1 Alhambra Ave. EastBound On-Ramp, from station conform 9.2' R+ D1 11+70 to station conform D1 17+90 (end of ramp widening on the left shoulder), and from station conform D1 15+95 to station conform D1 18+05 (end of ramp widening on the right shoulder)
2 Morello Ave. EastBound On-Ramp, from station conform Y1 13+00 to the end of ramp widening at station conform Y1 26+49
3 Morello Ave. WestBound On-Ramp, from station conform 36.3' R+ 20+70 to the end of ramp widening at station.conform 24.4" R+ 31+00

**14-11.03A(4) Submittals**

**14-11.03A(4)(a) Lead Compliance Plan**

Submit a lead compliance plan under section 7-1.02K(6)(j)(ii).

**14-11.03A(4)(b) Excavation and Transportation Plan**

Within 7 days after approval of the Contract, submit 3 copies of an excavation and transportation plan. Allow 7 days for review. If revisions are required, as determined by the Engineer, submit the revised plan within 7 days of receipt of the Engineer's comments. For the revision, allow 7 days for the review. Minor changes to or clarifications of the initial submittal may be made and attached as amendments to the excavation and transportation plan. In order to allow construction to proceed, the Engineer may conditionally approve the plan while minor revisions or amendments are being completed.

Prepare the written, project specific excavation and transportation plan establishing the procedures you will use to comply with requirements for excavating, stockpiling, transporting, and placing or disposing of material containing ADL. The plan must comply with the regulations of the DTSC and Cal/OSHA and the requirements of the variance. The sampling and analysis portions of the excavation and transportation plan must meet the requirements for the design and development of the sampling plan, statistical analysis, and reporting of test results contained in US EPA, SW 846, "Test Methods for Evaluating Solid Waste," Volume II: Field Manual Physical/Chemical, Chapter Nine, Section 9.1. The plan must include the following elements:

1. Excavation schedule by location and date
2. Temporary locations of stockpiled material
3. Survey methods for Type Y-1 material burial locations
4 Sampling and analysis plan for soil cover

**14-11.03A(4)(c) Burial Location Report**

Within 5 business days of completing placement of Type Y-1 or Y-2 material at a burial location, submit a report for that burial location, including "Burial Location of Soil Containing Aerial Deposited Lead" form and electronic geospatial vector data shapefiles of the top and bottom perimeters of the burial location. Submit to the Engineer and to:

ADL@dot.ca.gov

The Engineer notifies you of acceptance or rejection of the burial location report within 5 business days of receipt. If the report is rejected, you have 5 business days to submit a corrected report.

**14-11.03A(4)(d) Bill of Lading**

Copies of the bills of lading must be submitted as an informational submittal upon placement of Type Y-1 or Y-2 material in its final location.

**14-11.03A(5) Quality Control and Assurance**

Excavation, reuse, and disposal of material with ADL must comply with rules and regulations of the following agencies:

1. US DOT
2. US EPA
3. California Environmental Protection Agency
4. CDPH
5. DTSC
6. Cal/OSHA
7. California Department of Resources Recycling and Recovery
8. RWQCB, Region 2, San Francisco Bay
9. California Air Resources Board
10. Bay Area Air Quality Management District

Transport and dispose of material containing hazardous levels of lead under federal and state laws and regulations and county and municipal ordinances and regulations. Laws and regulations that govern this work include:

1. Health & Safety Code, Division 20, Chp 6.5 (California Hazardous Waste Control Act)
2. 22 CA Code of Regs, Div. 4.5 (Environmental Health Standards for the Management of Hazardous Waste)
3. 8 CA Code of Regs

**14-11.03B Materials**

**14-11.03C Construction**

**14-11.03C(1) General**

**14-11.03C(2) Material Management**

Place Type Y-1 material as shown and cover with a minimum 1.2 foot layer of nonhazardous soil or the pavement structure. Temporary surplus material may be generated on this project due to the requirements of stage construction. Do not transport temporary surplus outside the job site. It may be necessary to:

1. Stockpile material for subsequent stages.
2. Construct some embankments out of stage.
3. Handle temporary surplus material more than once.

**14-11.03C(3) Dust Control**

Excavation, transportation, placement, and handling of material containing ADL must result in no visible dust migration. A water truck or tank must be on the job site at all times while clearing and grubbing or performing earthwork operations in work areas containing ADL. Apply water to prevent visible dust.

**14-11.03C(4) Surveying Type Y-1 or Y-2 Material Burial Locations**

Survey the location of the bottom and top perimeters of each area where you bury Type Y-1 or Y-2 material (burial locations). The survey must be performed by or under the direction of one of the following:

1. Land surveyor licensed under the Bus & Prof Code, Chp 15 (commencing with § 8700)
2. Civil engineer licensed prior to January 1, 1982 under the Bus & Prof Code, Chp 7 (commencing with § 6700)

Survey 10 points to determine each burial location horizontally and vertically within the specified accuracies and to create closed polygons of the perimeters of the bottom and top of the burial location. If 10 points are not sufficient to define the polygon, add additional points until the polygon is defined. Establish the position of the bottom and top perimeters before placing subsequent layers of material that obstruct the location.

Report each burial location in California State Plane Coordinates in US Survey feet within the appropriate zone of the California Coordinate System of 1983 (CCS83) and in latitude and longitude. Horizontal positions must be referenced to CCS83 (epoch 2007.00 or later National Geodetic Survey [NGS] or California Spatial Reference Center [CSRC] published epoch) to an accuracy of 3 ft horizontally. The elevation of points identifying the burial location must locate the bottom and top of Type Y-1 or Y-2 material to an accuracy of 1 ft vertically. Elevations of the bottom and top of Type Y-1 or Y-2 material must be referenced to North American Vertical Datum of 1988 (NAVD88). Report accuracy of spatial data in US Survey feet under Federal Geographic Data Committee (FGDC)-STD-007.1-1998.

**14-11.03C(5) Material Transportation**

Before traveling on public roads, remove loose and extraneous material from surfaces outside the cargo areas of the transporting vehicles and cover the cargo with tarpaulins or other cover, as outlined in the approved excavation and transportation plan. You are responsible for costs due to spillage of material containing lead during transport. Transportation routes for Type Y-1 or Y-2 material must only include the highway.

**14-11.03C(6) Disposal**

Analyze surplus material for which the lead content is not known for lead before removing the material from within the project limits. Submit a sampling and analysis plan and the name of the analytical laboratory at least 15 days before beginning sampling and analysis. Use a CDPH ELAP certified laboratory. Sample at a minimum rate of 1 sample for each 200 cu yd of surplus material and test for lead using US EPA Method 6010B or 7000 series.

**14-11.03D Payment**

Payment for a lead compliance plan is not included in the payment for environmental stewardship work.

The Department does not pay for stockpiling of material containing ADL, unless the stockpiling is ordered. The Department does not pay for sampling and analysis unless it is ordered. The Department does not pay for additional sampling and analysis required by the receiving landfill.

Sampling, analyses, and reporting of results for surplus material not previously sampled is change order work.

**Replace "Reserved" in the RSS for section 84-6 with:**

## 84-6.01 GENERAL

### 84-6.01A Summary

Section 84-6 includes specifications for applying thermoplastic traffic stripes and pavement markings with enhanced wet-night visibility.

Thermoplastic must comply with section 84-2.

### 84-6.01B Submittals

Submit a certificate of compliance for the glass beads.

### 84-6.01C Quality Control and Assurance

Within 14 days of applying a thermoplastic traffic stripe or pavement marking with enhanced wet-night visibility, the retroreflectivity must be a minimum of 700 mcd/sq m/lx for white stripes and markings and 500 mcd/sq m/lx for yellow stripes and markings. Test the retroreflectivity using a reflectometer under ASTM E 1710.

## 84-6.02 MATERIALS

Thermoplastic traffic stripes and pavement markings with enhanced wet-night visibility must consist of a single uniform layer of thermoplastic and 2 layers of glass beads as follows:

1. The 1st layer of glass beads must be on the Authorized Material List under high-performance retroreflective glass beads for use in thermoplastic traffic stripes and pavement markings. The color of the glass beads must match the color of the stripe or marking to which they are being applied.
2. The 2nd layer of glass beads must comply with AASHTO M 247, Type 2.

Both types of glass beads must be surface treated for use with thermoplastic under the bead manufacturer's instructions.

## 84-6.03 CONSTRUCTION

Use a ribbon-extrusion or screed-type applicator to apply thermoplastic traffic stripe.

Operate the striping machine at a speed of 8 mph or slower during the application of thermoplastic traffic stripe and glass beads.

Apply thermoplastic traffic stripe at a rate of at least 0.38 lb/ft of 4-inch-wide solid stripe. The applied thermoplastic traffic stripe must be at least 0.090 inch thick.

Apply thermoplastic pavement marking at a rate of at least 1.06 lb/sq ft. The applied thermoplastic pavement marking must be at least 0.100 inch thick.

Apply thermoplastic traffic stripe and both types of glass beads in a single pass. First apply the thermoplastic, followed immediately by consecutive applications of high-performance glass beads and then AASHTO M 247, Type 2, glass beads. Use a separate applicator gun for each type of glass bead.

You may apply glass beads by hand on pavement markings.

Distribute glass beads uniformly on traffic stripes and pavement markings. Apply high-performance glass beads at a rate of at least 6 lb/100 sq ft of stripe or marking. Apply AASHTO M 247, Type 2, glass beads at a rate of at least 8 lb/100 sq ft of stripe or marking. The combined weight of the 2 types of glass beads must be greater than 14 lb/100 sq ft of stripe or marking.

## 84-6.04 PAYMENT

Not Used

**Replace "Reserved" in section 86-5.03 of the RSS with:**

**86-5.03A General**

**86-5.03A(1) Summary**

Section 86-5.03 includes specifications for installing accessible pedestrian signals (APS). Comply with TEES.

**86-5.03A(2) Definitions**

**accessible pedestrian signal:** Accessible pedestrian signal as defined in the *California MUTCD*.

**accessible walk indication:** Activated audible and vibrotactile action during the walk interval.

**ambient sound level:** Background sound level in dB at a given location.

**ambient sound sensing microphone:** Microphone that measures the ambient sound level in dB and automatically adjusts the APS speaker's volume.

**APS assembly:** Assembly that includes a pushbutton to actuate the APS components.

**audible speech walk message:** Audible prerecorded message that communicates to pedestrians which street has the walk interval.

**programming mechanism:** Device to program the APS' operation.

**pushbutton information message:** Pushbutton information message as defined in the *California MUTCD*.

**pushbutton locator tone:** Pushbutton locator tone as defined in the *California MUTCD*.

**vibrotactile pedestrian device:** Vibrotactile pedestrian device as defined in the *California MUTCD*.

**86-5.03A(3) Submittals**

Before shipping the APS units to the job site, submit the units with the following to METS:

1. Delivery form including Contract number and your contact information
2. Manufacturer's name
3. Model, lot, and serial numbers
4. Month and year of manufacture
5. Wiring diagram
6 Product data
7. Programming mechanism if not integral to the APS

Submit 2 APS user and operator manuals for each signalized location as informational submittals. Each manual must have a master item index that includes:

1. Descriptions of the APS and its associated equipment and cables
2. Illustrative block diagrams
3. Manufacturer's contact information
4. Technical data specifications
5. Parts list, descriptions, and settings
6 Fault diagnostic and repair procedures
7. Preventative maintenance procedures for maintaining APS performance parameters

Submit the manufacturer's warranty documentation as an informational submittal before installing the APS.

Submit a record of completed field tests, the APS' final configuration, audible sound level and threshold, and a list of all parameter settings.

**86-5.03A(4) Quality Control and Assurance**

**86-5.03A(4)(a) General**

The APS must be compatible with the Department-furnished Model 170E/2070L controller assembly.

The power to the APS must be connected to the pedestrian signal's terminal blocks.

**86-5.03A(4)(b) Functional Testing**

Perform 2 field tests on the APS: (1) when traffic is noisy during peak traffic hours and (2) when traffic is quiet during off-peak hours. Notify the Engineer 15 days before testing the APS.

**86-5.03A(4)(c) Warranty**

The APS must have a 2-year manufacturer's warranty against any defects or failures. The 2-year warranty period starts at Contract acceptance. Deliver a replacement within 10 days after you receive notification of a failed APS. The Department does not pay for the replacement. Deliver the replacement to the Department's Maintenance Electrical Shop at:

30 Rickard Street, San Francisco, CA 94134.

**86-5.03A(4)(d) Training**

Provide a minimum of 4 hours of training by a certified manufacturer's representative for up to 10 Department employees selected by the Engineer. The training must include instruction in installing, programming, adjusting, calibrating, and maintaining the APS.

Furnish materials and equipment for the training.

**86-5.03B Materials**

The housing for the APS assembly must be made of corrosion-resistant material. Theftproof bolts used for mounting the APS housing to the standard must be stainless steel with a chromium content of 17 percent and a nickel content of 8 percent.

The color of metallic housing must match color no. 33538 of FED-STD-595.

The color of plastic housing must match color no. 17038, 27038, or 37038 of FED-STD-595.

The APS assembly must be rainproof and shockproof in any weather condition.

The APS assembly must include:

1. Pushbutton actuator with a minimum diameter of 2 inches. If a mechanical switch is used, it must have:
   1.1. Operating force of 3.5 lb
   1.2. Maximum pretravel of 5/64 inch
   1.3. Minimum overtravel of 1/32 inch
   1.4. Differential travel from 0.002 to 0.04 inch
2. Vibrotactile device on the pushbutton or on the arrow.
3. Enclosure with an ambient-sound-level-sensing microphone and weatherproof speaker. The enclosure must:
   3.1 Weigh less than 7 lb.
   3.2 Measure less than 16 by 6 by 5 inches.
   3.3 Fit the signal standard.
   3.4 Have a wiring hole with a diameter not exceeding 1-1/8 inches.
   3.5 Be attached to the pole with 2 screws with a diameter from 1/4 to 3/8 inch suitable for use in tapped holes. The clear space between any 2 holes in the post must be at least twice the diameter of the larger hole.
4. Pushbutton sign.

The APS speakers and electronic equipment must be installed inside the APS assembly's enclosure. The speaker grills must be located on the surface of the enclosure.

Speakers must not interfere with the housing or its mounting hardware.

The conductor cable between the APS assembly and the pedestrian signal head must be a no. 9. 20-conductor cable complying with MIL-W-16878D. The wiring must comply with section 13.02 of ITE publication *Equipment and Material Standards* chapter 2, "Vehicle Traffic Control Signal Heads," and be NEC rated for service at +105 degrees C.

The APS must:

1. Include a mechanism for enabling and disabling its operation.
2. Have electronic switches, a potentiometer, or a handheld device for controlling and programming the volume level and messaging. Deliver any handheld programming device to the Engineer.
2 Provide information using:
   2.1 Audible speech message that plays when the pushbutton is actuated. The message must include the name of the street to be crossed. The APS must have at least 5 audible message options. The Engineer selects the message. The message must have a percussive tone consisting of multiple frequencies with a dominant component of 880 Hz. If the tone is selected as the message, it must repeat 8 to 10 ticks per second.
   2.2. Pushbutton locator tone that clicks or beeps. The pushbutton must produce the locator tone at an interval of 1 tone per second. Each tone must have a maximum duration of 0.15 second. The tone volume must adjust in response to the ambient sound level and be audible up to 12 feet from the pushbutton or to the building line, whichever is less.
3. Have a pushbutton that remains functional during an APS failure.

For signalized intersections, the APS must:

1. Have a pushbutton that when actuated activates the pedestrian walk signal's timing during an APS failure.
2 Provide information using:
   2.1. Audible speech walk message. The message must be activated from the beginning of the walk interval and repeated for its duration. An example of the message is "Peachtree. Walk sign is on to cross Peachtree."
   2.2. Pushbutton information message that provides the name of the street to be crossed. The message must play when the pushbutton is actuated. An example of the message is "Wait to cross Howard at Grand. Wait."
3. Have a functional pushbutton that activates the pedestrian walk signal whenever actuated, even if the audible speech walk message, the pushbutton information message, the pushbutton locator tone, and the vibrating surface features are disabled.

**86-5.03C Construction**

Arrange to have a manufacturer's representative at the job site when the APS is installed.The APS must not interfere with the controller assembly, the signal installation on signal standards, the pedestrian signal heads, or the terminal compartment blocks. The APS electronic control equipment must reside inside the APS assembly and the standard pedestrian signal head.

You are responsible for the compatibility of the components and for making the necessary calibration adjustments to deliver the performance specified. Furnish the equipment and hardware, and then set up, calibrate, and verify the performance of the APS.

Point arrows on the pushbutton signs in the same direction as the corresponding crosswalk. Attach the sign to the APS assembly.

Do not install an APS on a standard smaller than Type 1.

**86-5.03D Payment**

Not Used

**BID ITEM LIST**

**04-152724**

| Item No. | Item Code | Item Description | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|---|---|---|---|---|---|---|
| 1 | 070030 | LEAD COMPLIANCE PLAN | LS | LUMP SUM | LUMP SUM | |
| 2 | 080050 | PROGRESS SCHEDULE (CRITICAL PATH METHOD) | LS | LUMP SUM | LUMP SUM | |
| 3 | 090105 | TIME-RELATED OVERHEAD (LS) | LS | LUMP SUM | LUMP SUM | |
| 4 | 120090 | CONSTRUCTION AREA SIGNS | LS | LUMP SUM | LUMP SUM | |
| 5 | 120100 | TRAFFIC CONTROL SYSTEM | LS | LUMP SUM | LUMP SUM | |
| 6 | 120149 | TEMPORARY PAVEMENT MARKING (PAINT) | SQFT | 700 | | |
| 7 | 120159 | TEMPORARY TRAFFIC STRIPE (PAINT) | LF | 12,800 | | |
| 8 | 120165 | CHANNELIZER (SURFACE MOUNTED) | EA | 70 | | |
| 9 | 128652 | PORTABLE CHANGEABLE MESSAGE SIGN (LS) | LS | LUMP SUM | LUMP SUM | |
| 10 | 129000 | TEMPORARY RAILING (TYPE K) | LF | 15,300 | | |
| 11 | 129100 | TEMPORARY CRASH CUSHION MODULE | EA | 98 | | |
| 12 | 129110 | TEMPORARY CRASH CUSHION | EA | 14 | | |
| 13 | 130100 | JOB SITE MANAGEMENT | LS | LUMP SUM | LUMP SUM | |
| 14 | 130300 | PREPARE STORM WATER POLLUTION PREVENTION PLAN | LS | LUMP SUM | LUMP SUM | |
| 15 | 130310 | RAIN EVENT ACTION PLAN | EA | 80 | 500.00 | 40,000.00 |
| 16 | 130320 | STORM WATER SAMPLING AND ANALYSIS DAY | EA | 55 | | |
| 17 | 130330 | STORM WATER ANNUAL REPORT | EA | 3 | 2,000.00 | 6,000.00 |
| 18 | 130505 | MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL) | EA | 4 | | |
| 19 | 130530 | TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX) | SQYD | 43,000 | | |
| 20 | 130570 | TEMPORARY COVER | SQYD | 2,000 | | |



REPLACED PER ADDENDUM NO. 3 DATED JUNE 26, 2014

**BID ITEM LIST**

**04-152724**

| Item No. | Item Code | Item Description | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|---|---|---|---|---|---|---|
| 21 | 130610 | TEMPORARY CHECK DAM | LF | 360 | | |
| 22 | 130620 | TEMPORARY DRAINAGE INLET PROTECTION | EA | 60 | | |
| 23 | 130640 | TEMPORARY FIBER ROLL | LF | 14,000 | | |
| 24 | 130650 | TEMPORARY GRAVEL BAG BERM | LF | 100 | | |
| 25 | 130670 | TEMPORARY REINFORCED SILT FENCE | LF | 3,000 | | |
| 26 | 130710 | TEMPORARY CONSTRUCTION ENTRANCE | EA | 20 | | |
| 27 | 130730 | STREET SWEEPING | LS | LUMP SUM | LUMP SUM | |
| 28 | 130900 | TEMPORARY CONCRETE WASHOUT | LS | LUMP SUM | LUMP SUM | |
| 29 | 141000 | TEMPORARY FENCE (TYPE ESA) | LF | 3,600 | | |
| 30 | 141103 | REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE) | LF | 9,900 | | |
| 31 | 141109 | ADL BURIAL LOCATION REPORT | LS | LUMP SUM | LUMP SUM | |
| 32 | 141120 | TREATED WOOD WASTE | LB | 4,000 | | |
| 33 | 148005 | NOISE MONITORING | LS | LUMP SUM | LUMP SUM | |
| 34 | 150661 | REMOVE GUARDRAIL | LF | 970 | | |
| 35 | 150668 | REMOVE FLARED END SECTION | EA | 1 | | |
| 36 | 150685 | REMOVE IRRIGATION FACILITY | LS | LUMP SUM | LUMP SUM | |
| 37 | 150714 | REMOVE THERMOPLASTIC TRAFFIC STRIPE | LF | 19,400 | | |
| 38 | 150715 | REMOVE THERMOPLASTIC PAVEMENT MARKING | SQFT | 790 | | |
| 39 | 150722 | REMOVE PAVEMENT MARKER | EA | 580 | | |
| 40 | BLANK | | | | | |



REPLACED PER ADDENDUM NO. 3 DATED JUNE 26, 2014

**BID ITEM LIST**

**04-152724**

| Item No. | Item Code | Item Description | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|---|---|---|---|---|---|---|
| 41 | 150809 | REMOVE CULVERT (LF) | LF | 240 | | |
| 42 | 150820 | REMOVE INLET | EA | 12 | | |
| 43 | BLANK | | | | | |
| 44 | 153240 | REMOVE CONCRETE (CURB, GUTTER, AND SIDEWALK) (CY) | CY | 205 | | |
| 45 | 157560 | BRIDGE REMOVAL (PORTION) | LS | LUMP SUM | LUMP SUM | |
| 46 | 160102 | CLEARING AND GRUBBING (LS) | LS | LUMP SUM | LUMP SUM | |
| 47 | 190101 | ROADWAY EXCAVATION | CY | 20,700 | | |
| 48 | 190107 | ROADWAY EXCAVATION (TYPE Y-1) (AERIALLY DEPOSITED LEAD) | CY | 3,950 | | |
| 49 (F) | 192037 | STRUCTURE EXCAVATION (RETAINING WALL) | CY | 1,512 | | |
| 50 (F) | 192055 | STRUCTURE EXCAVATION (SOIL NAIL WALL) | CY | 1,267 | | |
| 51 (F) | 193013 | STRUCTURE BACKFILL (RETAINING WALL) | CY | 919 | | |
| 52 (F) | 193028 | STRUCTURE BACKFILL (SOIL NAIL WALL) | CY | 167 | | |
| 53 | 200002 | ROADSIDE CLEARING | LS | LUMP SUM | LUMP SUM | |
| 54 | 202006 | SOIL AMENDMENT | CY | 5 | | |
| 55 | BLANK | | | | | |
| 56 | BLANK | | | | | |
| 57 | 152356 | RELOCATE IRRIGATION FACILITIES | LS | LUMP SUM | LUMP SUM | |
| 58 | 202039 | SLOW-RELEASE FERTILIZER | LB | 16 | | |
| 59 | 204038 | PLANT (GROUP U) | EA | 25 | | |
| 60 | 204099 | PLANT ESTABLISHMENT WORK | LS | LUMP SUM | LUMP SUM | |



REPLACED PER ADDENDUM NO. 3 DATED JUNE 26, 2014

**BID ITEM LIST**

**04-152724**

| Item No. | Item Code | Item Description | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|---|---|---|---|---|---|---|
| 61 | 205033 | GRAVEL MULCH | SQFT | 2,300 | | |
| 62 | 205035 | WOOD MULCH | CY | 880 | | |
| 63 | 205051 | FOLIAGE PROTECTOR | EA | 25 | | |
| 64 | 206400 | CHECK AND TEST EXISTING IRRIGATION FACILITIES | LS | LUMP SUM | LUMP SUM | |
| 65 | 206559 | CONTROL AND NEUTRAL CONDUCTORS (ARMOR-CLAD) | LS | LUMP SUM | LUMP SUM | |
| 66 | 208416 | CERTIFY EXISTING BACKFLOW PREVENTERS | LS | LUMP SUM | LUMP SUM | |
| 67 | 208448 | RISER SPRINKLER ASSEMBLY | EA | 25 | | |
| 68 | 208562 | CAM COUPLER ASSEMBLY | EA | 3 | | |
| 69 | 208588 | 3" GATE VALVE | EA | 1 | | |
| 70 (F) | 208594 | 3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE) | LF | 1,297 | | |
| 71 (F) | 208596 | 1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE) | LF | 1,477 | | |
| 72 (F) | 208600 | 3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE) | LF | 1,015 | | |
| 73 | 208649 | QUICK COUPLING VALVE | EA | 1 | | |
| 74 | 208819 | 8" WELDED STEEL PIPE CONDUIT | LF | 60 | | |
| 75 | 210010 | MOVE-IN/MOVE-OUT (EROSION CONTROL) | EA | 19 | | |
| 76 | 210270 | ROLLED EROSION CONTROL PRODUCT (NETTING) | SQFT | 25,700 | | |
| 77 | 210300 | HYDROMULCH | SQFT | 255,000 | | |
| 78 | 210350 | FIBER ROLLS | LF | 38,300 | | |
| 79 | 210360 | COMPOST SOCK | LF | 2,180 | | |
| 80 | 210430 | HYDROSEED | SQFT | 255,000 | | |



REPLACED PER ADDENDUM NO. 3 DATED JUNE 26, 2014

**BID ITEM LIST**

**04-152724**

| Item No. | Item Code | Item Description | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|---|---|---|---|---|---|---|
| 81 | 210600 | COMPOST | SQFT | 255,000 | | |
| 82 | 210630 | INCORPORATE MATERIALS | SQFT | 39,600 | | |
| 83 | 250401 | CLASS 4 AGGREGATE SUBBASE | CY | 10,800 | | |
| 84 | BLANK | | | | | |
| 85 | BLANK | | | | | |
| 86 | 390132 | HOT MIX ASPHALT (TYPE A) | TON | 8,320 | | |
| 87 | 394073 | PLACE HOT MIX ASPHALT DIKE (TYPE A) | LF | 100 | | |
| 88 | 394074 | PLACE HOT MIX ASPHALT DIKE (TYPE C) | LF | 310 | | |
| 89 | 394076 | PLACE HOT MIX ASPHALT DIKE (TYPE E) | LF | 2,860 | | |
| 90 | 394077 | PLACE HOT MIX ASPHALT DIKE (TYPE F) | LF | 2,300 | | |
| 91 | 460300 | SOIL NAIL | LF | 12,298 | | |
| 92 | 498044 | 36" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION) | LF | 144 | | |
| 93 | 498052 | 60" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION) | LF | 25 | | |
| 94 (F) | 510053 | STRUCTURAL CONCRETE, BRIDGE | CY | 1 | | |
| 95 (F) | 510060 | STRUCTURAL CONCRETE, RETAINING WALL | CY | 1,338 | | |
| 96 (F) | 510502 | MINOR CONCRETE (MINOR STRUCTURE) | CY | 61 | | |
| 97 (F) | 044631 | RANDOM ROUGH STACKED ROCK TEXTURE | SQFT | 14,167 | | |
| 98 (F) | 520102 | BAR REINFORCING STEEL (BRIDGE) | LB | 167 | | |
| 99 (F) | 520103 | BAR REINFORCING STEEL (RETAINING WALL) | LB | 171,780 | | |
| 100 (F) | 530200 | STRUCTURAL SHOTCRETE | CY | 178 | | |



REPLACED PER ADDENDUM NO. 3 DATED JUNE 26, 2014

**BID ITEM LIST**

**04-152724**

| Item No. | Item Code | Item Description | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|---|---|---|---|---|---|---|
| 101 (F) | 560218 | FURNISH SIGN STRUCTURE (TRUSS) | LB | 13,400 | | |
| 102 (F) | 560219 | INSTALL SIGN STRUCTURE (TRUSS) | LB | 13,400 | | |
| 103 | 560248 | FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED) | SQFT | 530 | | |
| 104 | 566011 | ROADSIDE SIGN - ONE POST | EA | 34 | | |
| 105 | 568001 | INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD) | EA | 44 | | |
| 106 | 620100 | 18" ALTERNATIVE PIPE CULVERT | LF | 750 | | |
| 107 | 620140 | 24" ALTERNATIVE PIPE CULVERT | LF | 60 | | |
| 108 | 665011 | 12" CORRUGATED STEEL PIPE (.064" THICK) | LF | 300 | | |
| 109 | 690118 | 18" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK) | LF | 20 | | |
| 110 | 703531 | 12" WELDED STEEL PIPE (.134" THICK) | LF | 86 | | |
| 111 | BLANK | | | | | |
| 112 (F) | 721017 | ROCK SLOPE PROTECTION (FACING, METHOD B) (CY) | CY | 14 | | |
| 113 | 729012 | ROCK SLOPE PROTECTION FABRIC (CLASS 10) | SQFT | 270 | | |
| 114 | 730040 | MINOR CONCRETE (GUTTER) (LF) | LF | 1,920 | | |
| 115 | 730070 | DETECTABLE WARNING SURFACE | SQFT | 340 | | |
| 116 | 731627 | MINOR CONCRETE (CURB, SIDEWALK AND CURB RAMP) | CY | 75 | | |
| 117 (F) | 750001 | MISCELLANEOUS IRON AND STEEL | LB | 10,710 | | |
| 118 | 802501 | 4' CHAIN LINK GATE (TYPE CL-6) | EA | 2 | | |
| 119 | 820118 | GUARD RAILING DELINEATOR | EA | 250 | | |
| 120 | 820134 | OBJECT MARKER (TYPE P) | EA | 4 | | |



REPLACED PER ADDENDUM NO. 3 DATED JUNE 26, 2014

**BID ITEM LIST**

**04-152724**

| Item No. | Item Code | Item Description | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|---|---|---|---|---|---|---|
| 121 | 820190 | SPECIAL MARKER | EA | 15 | | |
| 122 | 832005 | MIDWEST GUARDRAIL SYSTEM | LF | 5,540 | | |
| 123 (F) | 833020 | CHAIN LINK RAILING | LF | 1,650 | | |
| 124 | 044632 | CONCRETE BARRIER (TRANSITION) | LF | 24 | | |
| 125 | 839543 | TRANSITION RAILING (TYPE WB-31) | EA | 13 | | |
| 126 | 839584 | ALTERNATIVE IN-LINE TERMINAL SYSTEM | EA | 3 | | |
| 127 | 839585 | ALTERNATIVE FLARED TERMINAL SYSTEM | EA | 10 | | |
| 128 (F) | 044633 | CONCRETE BARRIER (TYPE 60 MODIFIED) | LF | 270 | | |
| 129 (F) | 044634 | CONCRETE BARRIER (TYPE 60D MODIFIED) | LF | 1,650 | | |
| 130 (F) | 839721 | CONCRETE BARRIER (TYPE 732A) | LF | 1,319 | | |
| 131 | 840501 | THERMOPLASTIC TRAFFIC STRIPE | LF | 200 | | |
| 132 | 840504 | 4" THERMOPLASTIC TRAFFIC STRIPE | LF | 24,600 | | |
| 133 | 840506 | 8" THERMOPLASTIC TRAFFIC STRIPE | LF | 5,330 | | |
| 134 | 840515 | THERMOPLASTIC PAVEMENT MARKING | SQFT | 750 | | |
| 135 | 850111 | PAVEMENT MARKER (RETROREFLECTIVE) | EA | 660 | | |
| 136 | 860090 | MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION | LS | LUMP SUM | LUMP SUM | |
| 137 | 860251 | SIGNAL AND LIGHTING (LOCATION 1) | LS | LUMP SUM | LUMP SUM | |
| 138 | 860252 | SIGNAL AND LIGHTING (LOCATION 2) | LS | LUMP SUM | LUMP SUM | |
| 139 | 860253 | SIGNAL AND LIGHTING (LOCATION 3) | LS | LUMP SUM | LUMP SUM | |
| 140 | 860254 | SIGNAL AND LIGHTING (LOCATION 4) | LS | LUMP SUM | LUMP SUM | |



REPLACED PER ADDENDUM NO. 3 DATED JUNE 26, 2014

**BID ITEM LIST**

**04-152724**

| Item No. | Item Code | Item Description | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|---|---|---|---|---|---|---|
| 141 | BLANK | | | | | |
| 142 | 860460 | LIGHTING AND SIGN ILLUMINATION | LS | LUMP SUM | LUMP SUM | |
| 143 | 027454 | TRAFFIC OPERATIONS SYSTEM | LS | LUMP SUM | LUMP SUM | |
| 144 | BLANK | | | | | |
| 145 | 150857 | REMOVE ASPHALT CONCRETE SURFACING | SQFT | 6,120 | | |
| 146 | 152454 | ADJUST PULL BOX | EA | 5 | | |
| 147 | 153103 | COLD PLANE ASPHALT CONRETE PAVEMENT | SQYD | 470 | | |
| 148 | 156576 | REMOVE METAL RAILING | LF | 12 | | |
| 149 | 260303 | CLASS 3 AGGREGATE BASE | CY | 6,200 | | |
| 150 | 397005 | TACK COAT | TON | 28 | | |
| 151 | 705007 | 12" STEEL FLARED END SECTION | EA | 1 | | |
| 152 | 027665 | LIGHTING AND SIGNAL LLUMINATION (STAGE CONSTRUCTION) | LS | LUMP SUM | LUMP SUM | |
| 153 | 860255 | SIGNAL AND LIGHTING (LOCATION 5) | LS | LUMP SUM | LUMP SUM | |
| 154 | 027666 | SIGNAL AND LIGHTING (LOCATION 6) | LS | LUMP SUM | LUMP SUM | |
| 155 | 999990 | MOBILIZATION | LS | LUMP SUM | LUMP SUM | |

**TOTAL BID**

**FOR BID ITEMS:** $ _____

**TOTAL BID**

**FOR TIME:** _____ **WORKING DAYS** (Not to exceed 250 Days) **X** **$7,438.00** **COST PER DAY** **=** $ _____

**TOTAL BID FOR COMPARISON (COST PLUS TIME):** $ _____



REPLACED PER ADDENDUM NO. 3 DATED JUNE 26, 2014